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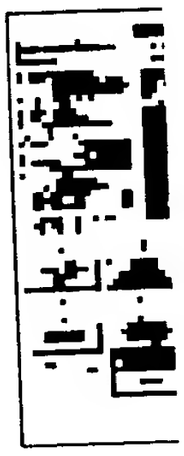

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Abstract:

PROBLEM TO BE SOLVED: To obtain a mixture of butanediol and a specific diol in high yield by allowing a mixture of succinic acid and a specific dicarboxylic acid to react with hydrogen in the presence of a specific catalyst and water.

SOLUTION: A mixture of (A) succinic acid and (B) a dicarboxylic acid of the formula: HOOC-R-COOH (R is a 3-20C saturated divalent hydrocarbon) and (C) hydrogen are allowed to react with each other in the presence of (D) a catalyst prepared by carrying one or more metals selected from ruthenium and tin, rhenium, molybdenum, palladium, silver and nickel supported by carbon carrier that is preliminarily treated with hydrogen peroxide and/or ozone aqueous solution and (E) water under a pressure of 1-25 Mpa, at 100-300°C to obtain a mixture of 1,4-butandiol and a diol of the formula: HO-CH2-R-CH2OH. As a mixture of the component A and the component B, are cited preferably a mixtures of dicarboxylic acids including the component A, glutaric acid and adipic acid.

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Family: Show 4 known family members

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(54) PRODUCTION OF DIOLS

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